

ICT Literacy Map

DEVELOPED IN COOPERATION WITH THE NATIONAL COUNCIL FOR GEOGRAPHIC EDUCATION (NCGE)

ICT Literacy Maps are the result of hundreds of hours of research, development and feedback from educators and business leaders across the nation. The Partnership has issued ICT Literacy Maps for the core subjects of Geography, Math, English and Science. These tools are available at www.21stcenturyskills.org/matrices/.

The Partnership for 21st Century Skills advocates for the integration of Information and Communication Technology (ICT) Literacy into K-12 education so that students can learn and achieve in the core academic subjects at much higher levels. The Partnership defines ICT Literacy as the use of 21st century tools to perform learning skills.

The Partnership has forged alliances with key national organizations that represent the core academic subjects, including English, Math, Science and Geography. As a result of these collaborations, the Partnership has developed a series of ICT Literacy Maps that illustrate the intersection between ICT Literacy and core academic subjects. The maps enable educators, administrators and policymakers to gain concrete examples of how ICT Literacy can be integrated into core subjects.

LEARNING SKILLS FOR INFORMATION, COMMUNICATION, AND MEDIA LITERACY

Information and Media Literacy

Accessing and managing information. Integrating and creating information. Evaluating and analyzing information.

	4th Grade	8th Grade	12th Grade
21st Century Tools for Communication, Information Processing, and Research	Audio/video tapes, films, TV programs, tape/video recorders, newspapers, books, computers, geographic information systems, global positioning systems, remote sensing (aerial photographs and satellite imagery), database and spreadsheet software, Internet and digital libraries	Audio/video tapes, films, TV programs, tape/video recorders, newspapers, books, computers, geographic information systems, global positioning systems, remote sensing (aerial photographs and satellite imagery), database and spreadsheet software, Internet and digital libraries	Audio/video tapes, films, TV programs, tape/video recorders, newspapers, books, computers, geographic information systems, global positioning systems, remote sensing (aerial photographs and satellite imagery), database and spreadsheet software, Internet and digital libraries
SAMPLE Student Outcomes for Accessing, Processing, Managing, Integrating and Communicating Information	<ul style="list-style-type: none">Access information about places around the world from a variety of media sourcesGather original data such as observations of weather and climate in the students' hometown and create graphs or charts to display the informationAnalyze and compare information in a variety of media such as photographs, maps, and remotely sensed images (aerial photographs and satellite imagery) to draw conclusions (e.g., describe change over time)	<ul style="list-style-type: none">Download and store relevant spatial data from the InternetCreate original data sets using tools such as a global positioning system and input spatial data into spreadsheetsConduct visual analysis of remotely sensed images (aerial photographs and satellite imagery), maps and other graphic representations of environmental data from local to global in scale	<ul style="list-style-type: none">Identify spatial data for study of the local community appropriate in scale and projectionCreate new data sets and effectively use these data in a geographic information systemConduct analysis using demographic data in a geographic information system to analyze voting patterns and determine redistricting guidelines

PARTNERSHIP FOR 21ST CENTURY SKILLS
345 E. Toole Ste. 105 Tucson, AZ 85701-1842 520-623-2466 21stcenturyskills.org © 2004 Partnership for 21st Century Skills

A Learning Skill
+
B 21st Century Tool
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C ICT Literacy

An example from the Math ICT Literacy Map illustrates sample outcomes for teaching communication skills.